

# *Headquarters Air Combat Command*

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## *Integrating The Enterprise Across MAJCOMs*



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This Briefing is:  
**UNCLASSIFIED**

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# *Overview*

- **Training Requirement**
- **V-C vs L-V-C**
- **CAF Issues**
- **Options**



# *Topic*

- **Integrating the Enterprise Across MAJCOMs**
- **Assumptions:**
  - Focus for now is on the “Virtual” piece
  - Solutions need to apply to “Live” also
  - Issues are relevant to joint and coalition but may be compounded
  - Focus here will be on items identified within CAF DMO
  - **Pilot Project**



# ***Define a Training Requirement***

- **First questions that need to be asked are:**
  - Who are the training partners
  - What is the training requirement
  - Is there a training benefit on all sides
- **Examples:**
  - Disproportionate balance between CAF C2 needs and fighters
  - CAF fighter/bombers & SOF JTACs
  - CAF C2 & Space or Joint
  - CAF fighter/bomber and Navy C2 (MAS)
  - CAF fighters & MAF
  - CAF & Coalition
- **Enterprise Solution:**
  - Work with MAJCOMs to determine training req'ts across MAJCOMs, Joint, and Coalition

***Premise that we need to connect just because we can is false and wasteful!***

[illegible]

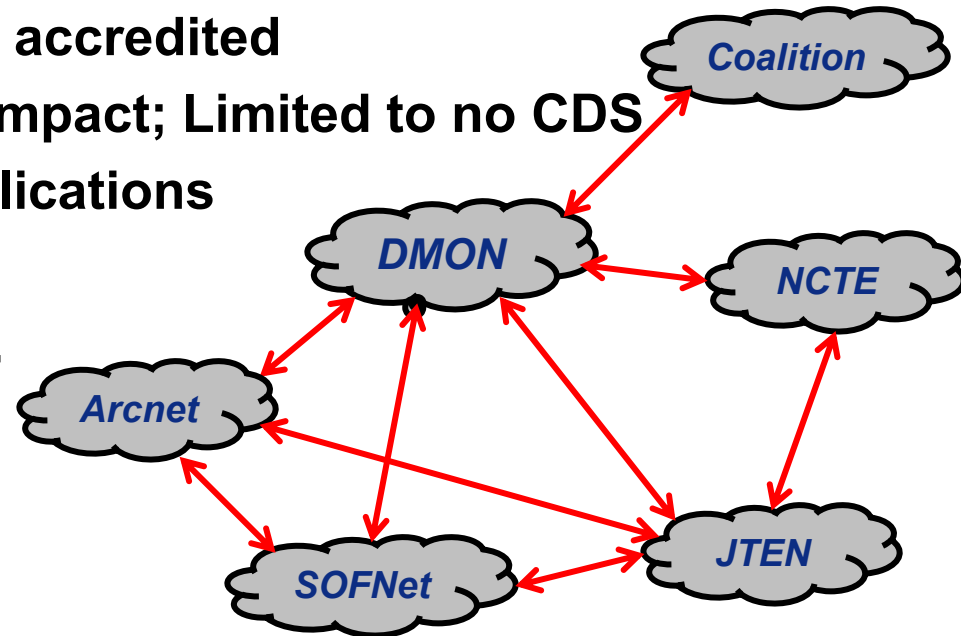
## More Detail...



# CAF Issues!

- **Connectivity:**

- DMON only – No issues once accredited
- DMON to ARCNet – Minimal impact; Limited to no CDS
- DMON to Xnet – Security implications
  - CAF uses DMOC as buffer
- DMON to Coalition network...
  - 5 eyes
  - Others



- **Enterprise Solution:**

- Dictate one network!
- Provide connectivity between existing networks (standards, security, policy, etc. issues)

***Persistent or periodic?***



# ***DMON Accreditation***

- **Lack of support**
- **Time to complete**
- **Changing ROE**
- **Enterprise Solution:**
  - **Single office for C&A**
  - **Standardized approach applicable to networked simulators and not just computers**
  - **Design templates to streamline and expedite process**







# ***Standards and Standards Implementation***

- **Standards required for persistent connectivity**
  - **Configuration Control**
  - **Fixed players for security reasons**
- **Standards need to be of sufficient detail to resolve integration issues and not just touch on the basics**
- **Implementation of standards is costly**
- **Integration testing is critical**
- **Enterprise Solution:**
  - **Develop AF Standards - only if required and where needed**
  - **Look at existing standards across MAJCOMs to determine shortfall, differences, or issues that would impact training**



# ***Correlation***

- **Databases: Overall training area boundaries**
- **High fidelity target areas: Specific areas to meet the needs of each platform**
- **Models (3D and flight): Visual 3D; Validated models; Realistic behaviors; Adequate for training)**
- **Enterprise Solution:**
  - **Determine database and model requirements**
  - **Provide datasets and models in common formats**
  - **Access to validated models that are usable by platforms at required levels**
  - **Push on SPOs to require use of Gov't provided information**



# ***Simulator Capabilities***

- **Different MDS have different sim requirements to meet training**
  - **CGFs, IGs, visual displays, entity count, etc.**
- **Dictating solutions drives cost and raises risk**
- **Enterprise Solution:**
  - **Assist with defining capabilities across MAJCOMs**
  - **Determine common formats or capabilities for industry use**
    - **E.g. Open flight models**
  - **Do not dictate tech solutions that have to be used**



# ***Cross Domain Solution***

- **Cross Domain Solutions**
  - **Required for varying capabilities**
  - **Keeping current is a big issue for CAF DMO**
  - **CAF DMO working toward a Common Mission Enclave (CME)**
- **Joint creates possible issues depending on classifications**
- **Coalition training further creates issues for IDS**
- **Foreign Exchange Officers and ITAR exemptions, TAAs**
- **Enterprise Solution:**
  - **Don't force Joint/Coalition training on MAJCOMs**
  - **Assist with ITARs and TAAs**
  - **Assist in CDS/IDS issues that will work in numerous events**



# ***Suggested Enterprise Tasks***

- 1. Define training requirement**
  - **Why, how often, at what security level**
  - **By each MAJCOM platform**
- 2. IA process**
- 3. Dataset, models, etc. provided by Gov't**
- 4. Threat Validation**
- 5. CDS, IDS for Joint and Coalition**
- 6. Standards**